H-ALPHA SOLAR FLARE REPORT FORMAT - Apr 1938-2010

Reports of the same flare by different observatories have NOT been identified and labeled with a GROUPING NUMBER in columns 96-100. The GROUP NUMBER, which counts the number of distinct flares for each month, remains blank.

Files for 1938-54 were prepared from the International Astronomical Union's QUARTERLY BULLETIN ON SOLAR ACTIVITY and have not been proofread.

Column	Fmt	Description
1- 2	I2	DATA CODE; always 31
3- 5	I3	STATION CODE; numeric; used within center
6- 7	I2	YEAR
8- 9	I2	MONTH
10-11	I2	DAY
12-13	A2	Asterisks mark record with unconfirmed change.
14-17	I4	START TIME
18	A1	QUALIFIER: D=after,E=before,U=uncertain
19-22	I4	END TIME
23	A1	QUALIFIER: D=after,E=before,U=uncertain
24-27	I4	MAX TIME; time of maximum brightness
28	A1	QUALIFIER: D=after,E=before,U=uncertain
29	A1	N or S for north or south latitude
30-31	I2	LATITUDE
32	A1	E or W for east or west central meridian distance
33-34	I2	CENTRAL MERIDIAN DISTANCE
35	A1	IMPORTANCE based on flare area = S,1,2 or 3
36	A1	BRIGHTNESS: F=faint, N=normal, B=bright
37	A1	COMPLETENESS = C,P,V or S; indicates the kind of observation and the completeness of it
38-41	F4.0	TIME FLAER AREA was measured
42-46	F5.0	AREA; apparent area in millionths of solar disk
47-50	F4.1	AREA; corrected area in square degrees; implied decimal point between columns 49 and 50
51	A1	Blank
52-56	F5.2	LINE WIDTH; width in Angstroms of H-alpha line
57-59	A3	INTENSITY; brightness of H-alpha emission line expressed as percentage above continuum
60	A1	X-RAY CLASS: C,M,X code the maximum power of 10 the 1-8 Angstrom flux attains
61-63	F3.1	X-RAY INTENSITY: a number from 1.0 to 9.9 that multiplies the X-ray class
64-67	I4	CALCIUM PLAGE REGION in which flare occurred
68-71	A4	STATION name abbreviation
72	I1	SEEING: atmospheric stability during observations
73-80	A8	REMARKS: USAF flare reports contain letter-coded remarks in columns 73-75, status codes in 76, and NOAA/USAF region numbers in 77-80. NOTE: Beginning with January 1997 data, the integrated flux for xray events from start to end will appear here if available (units: J/m*2)
81-85	I5	NOAA/USAF SUNSPOT REGION NUMBER
86	A1	Blank; may be used to add a letter to a region
87-88	I2	CENTRAL MERIDIAN PASSAGE YEAR
89-90	I2	CENTRAL MERIDIAN PASSAGE MONTH
91-94	F4.1	CENTRAL MERIDIAN PASSAGE DAY
95	A1	Blank
96-100	I5	GROUPING NUMBER assigned by WDC-A Boulder